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## Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in the application.

- 1. (Currently amended) A functionalized polymeric reagent for solution or solid-phase synthesis comprising a polymer and a linker moiety, wherein the linker moiety comprises an acid labile isonitrile moiety, and wherein the acid labile isonitrile moiety is linked to the linker moiety by a covalent bond that cleaves when treated with acid and is cleavable at the CN functionality of the isonitrile.
- 2. (Previously presented) A functionalized polymeric reagent according to claim 1 having Formula I

$$R^{1} \xrightarrow{R^{2}} R^{4} \xrightarrow{X} \underset{polymer}{|} X$$

wherein:

X is carbon, oxygen, a PEG-chain, or a -(CH2)n-CONH- group;

R is hydrogen, phenyl, or a substituted phenyl group;

R<sup>2</sup> is hydrogen, phenyl, or a substituted phenyl group;

R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, or phenoxy;

 $R^4$  is hydrogen,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkoxy, or phenoxy; and n is an integer from 1 to 4.

3. (Previously presented) The functionalized polymeric reagent according to claim 1 having a structure selected from the group consisting of: Serial No. 09/762,320, filed Feb. 6, 2001 Docket No. 1103326-0654 Page 3 of 13

wherein R is a polymer which is attached to the linker moiety either (i) directly or (ii) through a  $-(CH_2)_n$ -CONH- group or a PEG-chain.

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- 4. (Previously presented) The functionalized polymeric reagent according to claim 1, wherein the polymer is a soluble polymer.
- 5. (Previously presented) The functionalized polymeric reagent according to claim 1, wherein the polymer is an insoluble polymer.\
- 6. (Withdrawn) A method for preparing a functionalized polymeric reagent according to any one of claims 1-5, comprising the steps of:
  - a) reacting a polymeric support with a formylating reagent to obtain a formamido group; and b) converting the formamido group into an isonitrile moiety.
- 7. (Withdrawn) The method according to claim 6, wherein the formylating reagent used in step a) is 2,4,5-trichlorophenyl formate.
- 8. (Withdrawn) The method according to claim 6, wherein carbon tetrachloride / triphenylphosphine in the presence of triethylamine is used to convert the formamido group into the isonitrile moiety.
- (Withdrawn) A method for preparing an organic compound by solution or solid-phase synthesis comprising the steps of:
  - a) immobilizing a substrate compound to the isonitrile moiety of the functionalized polymeric reagent according to any one of claims 1-5;
  - b) performing at least one subsequent reaction step; and
  - e) cleaving the compound from the polymeric reagent by acid treatment.
- 10. (Withdrawn) The method according to claim 9, further comprising a subsequent reaction step after cleavage from the polymeric reagent.
- 11. (Withdrawn) The method according to claim 9, wherein a plurality of substrate compounds, or plurality of subsequent reaction steps, or both, is used to obtain a library of organic compounds.
- 12. (Withdrawn) The method according to claim 9, wherein at least one of the reaction steps is a multicomponent reaction.

- 13. (Previously presented) A kit comprising a container of a functionalized polymeric reagent according to any one of claims 1-5.
- 14. (Withdrawn) A compound comprising a polymer and a linker moiety and having Formula II

wherein:

X is carbon, oxygen, a PEG-chain, or a -(CH<sub>2</sub>)<sub>n</sub>-CONH- group;

R<sup>1</sup> is hydrogen, phenyl, or a substituted phenyl group;

R<sup>2</sup> is hydrogen, phenyl, or a substituted phenyl group;

R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, or phenoxy;

R4 is hydrogen, C1-C6 alkyl, C1-C6 alkoxy, or phenoxy; and

n is an integer from 1 to 4.

15. (Withdrawn) A compound according to claim 14 having a structure selected from the group consisting of:

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wherein R is a polymer which is attached to the linker moiety either (i) directly or (ii) through a spacer moiety.

16. (Withdrawn) The compound according to claim 15, wherein the linker moiety is a PEG-chain or a -(CH<sub>2</sub>)<sub>n</sub>-CONH- group.